10/533693

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 27 May 2004 (27.05.2004)

PCT

(10) International Publication Number WO 2004/044046 A3

- C07D 239/47, (51) International Patent Classification7: 213/75, 237/22, 215/38, 498/04, A61K 31/505, 31/44,
- 31/50
- (21) International Application Number:

PCT/US2003/035526

(22) International Filing Date:

7 November 2003 (07.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

US

(30) Priority Data: 60/424,928

8 November 2002 (08.11.2002)

- (71) Applicants (for all designated States except US): ENCY-SIVE PHARMACEUTICALS [US/US]; 6700 West Loop South, Bellaire, TX 77401 (US). SCHERING CORPO-RATION [US/US]; 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VANDERSLICE, Peter [US/US]; 3427 Gannett, Houston, TX 77025 (US). HOLLAND, George [US/US]; 3331 Green Tree Park, Houston, TX 77007 (US). SHIH, Neng-Yang [US/US]; 1 Maple Drive, North Caldwell, NJ 07006 (US). ASLA-NIAN, Robert, G. [US/US]; 144 Philip Drive, Rockaway, NJ 07866 (US). CHAPMAN, Richard, W. [US/US]; 30 Ditmars Circle, Hillsboro, NJ 07866 (US). KREUTNER, William [US/US]; 18 Woodland Drive, West Paterson, NJ 08844 (US).

- (74) Agent: KATZ, Martin, L.; Wood, Phillips, Katz, Clark & Mortimer, 500 West Madison Street, Suite 3800, Chicago, IL 60661 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 30 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMBINATION PRODUCTS WITH CARBOXYLIC ACID DERIVATIVES THAT INHIBIT THE BINDING OF IN-TEGRINS TO THEIR RECEPTORS AND OTHER THERAPEUTIC COMPOUNDS

(57) Abstract: A composition, method and kit comprising a compound for the inhibition of the binding of $\alpha_4\beta_1$ integrin to its receptors, for example VCAM-1 (vascular cell adhesion molecule-1) and fibronectin and other therapeutic compounds for the control or prevention of diseases states in which $\alpha_4\beta_1$ is involved.

